

SecureChat: Streamlining Customer Support

Client: Securitas

Team MNM

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Client Overview

Let's start with some context.

Securitas or Stanley security provides security solutions

• for small & large businesses, communities, individual homes, etc.

 Is achieved by leasing security systems, and providing remote monitoring of their customer's spaces.

Project Overview

Currently,

- All Customer Service is handled through voice calls.
- Voice-call based Remote assistance support is provided.
- Hard to comprehend problem related information over a call.
- Service Van is deployed if the problem cannot be resolved through the voice call.
- The **cost in terms of time and money** to resolve these issues are **high**

Proposed Client Goal

Designing a "video customer support platform" to "facilitate remote assistance" for the service teams in Securitas.

Our Process





Problem Exploration

Competitor Analysis

Analysed 11 competitors

Alerts through System Video Documentation/ Knowledge Base Al-based system recognition for Flexibility in Automated Product Scheduling Calls Search Analytics Reporting Omni-platform Presence Internal Agent Training Screen Sharing with Co-browse

Callrail Analysis

Analysed 100+ calls

Manual process of noting Network issues down ticket number after issue resolved Constant re-verification of authentication for No option to remotely every reroute of call troubleshoot issues Long wait times Incorrect call rerouting Difficulty in Confusion while understanding responding to IVR instructions

Interview Analysis

Analysed 2 interviews

Different levels of users (payment plans)

85% - 90% of the times
when customers call
regarding follow up on
tickets, it is not possible to
get a hold of the dispatcher

Remote control available only for fire alarms and Burglary department

TAC agents primarily handle technical assistance calls Process of connecting customer to dispatcher is cumbersome

Less technicians, so backlog in tickets

Busy/Unavailability of Dispatchers

Inclined towards video/image based troubleshooting solutions

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How might we design a potential customer service platform, that increases remote assistance use-cases, and reduces load on service dispatch team.

"



Data Analysis

Persona 1 The Customer



30 Years Old Business Professional Punctual, less time "My fire alarm has been beeping, I **do not know** how this thing works, but I need **assistance immediately, UGH!**"

- A really really tired Allison

Key Goal

Wants to **solve issues** with her security system so that she can **quickly** get back to her work

Frustrations

- Long Wait Times
- Unclear Instructions
- Network Issues at Site
- Doesn't understand Technical Vocabulary

Persona 2 The Agent



42 Years Old Tech Professional Enthusiastic, Social "I try to **triage** on customer's problems by asking questions, to give **accurate instructions** within the **shortest** call duration."

- Enthusiastic Jack

Key Goal

Identify customer's problems **accurately** and try to solve them over the call **to save unneeded service dispatch.**

Frustrations

- Customer doesn't understand what instructions he is giving
- Unable to understand customer's problems on phone

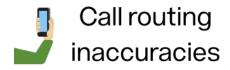


	Call connected	Customer Authorization	Issue	Solve Issue	Call End
	1. Customer gets put on the agent's line	4. Verifies customer's name,address and passcode	8. Listens to customer's problem	13. Feels that issue maybe solved	16. Reassures the customer that will be solved
	2. Gets the line connected and receives the call	5. Asks for other contact details as customer forgets the passcode	9. Asks questions to customer to understand more	14. Raises a service ticket as the customer feels this might happen again.	17. Ends the call with a greeting
	3. Greets the customer	6. Authorizes the contact number	10. Checks system for documentation/any other instructions	15. Passes the service ticket number to the customer	
	"I hope this call goes well"	7. Verifies the customers	11. Provides the customer with instructions		
		"This seems like a known issue"	12. Keeps conversing with the customer until the user is fixed	(8)	"Happy customer is a good sign"
	2		"The customer is not	"Ohh okay! I will raise a ticket for the customer's satisfaction"	10
C		going good" 5	able to understand me"	solved	
			(7)	Ŭ	(II)

What are "We" trying to solve?

- **Shortage** of manual labor.
- **High costs** associated with deploying a service van.
- **Limited** remote assistance.
- Long Resolution Time for Minor Issues.
- Inefficiencies in solving problems through voice based calls.

Identified Pain Points

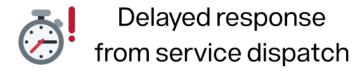




Long wait times with agent



Lack of direct contact



Inefficient ticket generation

Root-cause analysis

All the research data points us to a common root cause: a communication gap between the customer and support team. This gap is caused by the lack of a visual aid or tool during customer interactions, leading to miscommunication and longer resolution times. Addressing this gap by providing a visual aid can improve the support experience and reduce costs associated with manual labor and on-site visits.

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Root-cause analysis

All the research data points us to a common root cause:

a communication gap between the customer and support team caused by *lack of a visual aid* during customer interactions, leading to *miscommunication and longer resolution times*.

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caused by lack of a visual aid during customer interactions, leading to miscommunication and longer resolution times.

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Ideation & Design



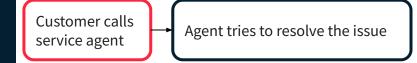
Client Constraints

- Client constraints included **limited resources** to implement AI or machine learning solutions.
- The client **preferred** a **simple and easily** implementable solution.
- The client **did not want** a solution that relied on
 - a pre-made knowledge database.

Current Scenario

Customer calls service agent

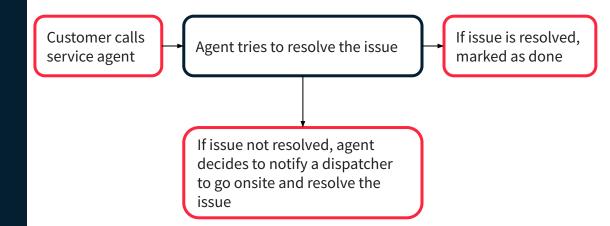
Current Scenario



Current Scenario



Current Scenario



Project Solution

Customer calls service agent

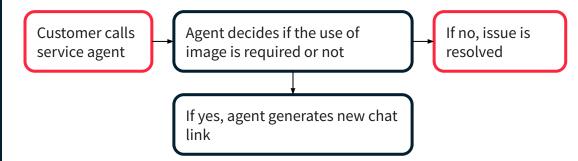
Agent decides if the use of image is required or not

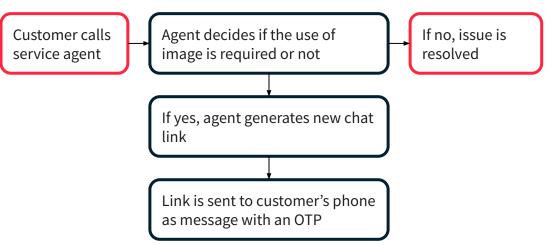
Customer calls service agent

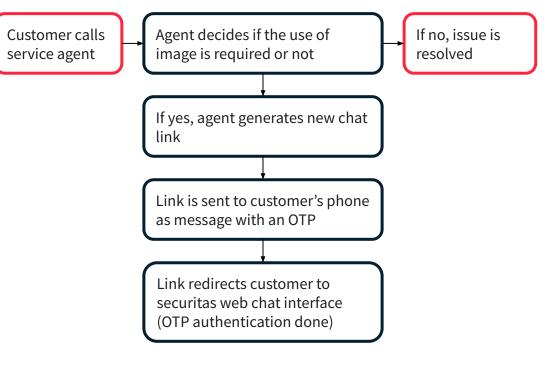
Agent decides if the use of image is required or not

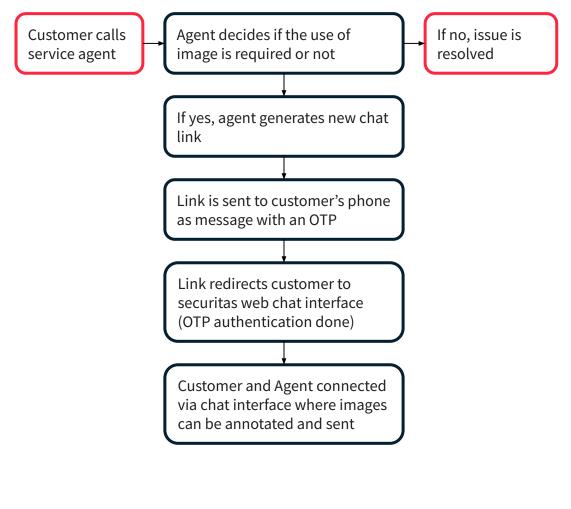
If no, issue is resolved

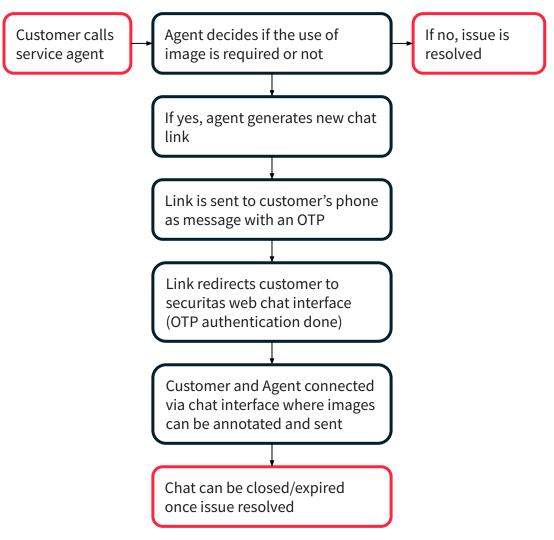
Project Solution







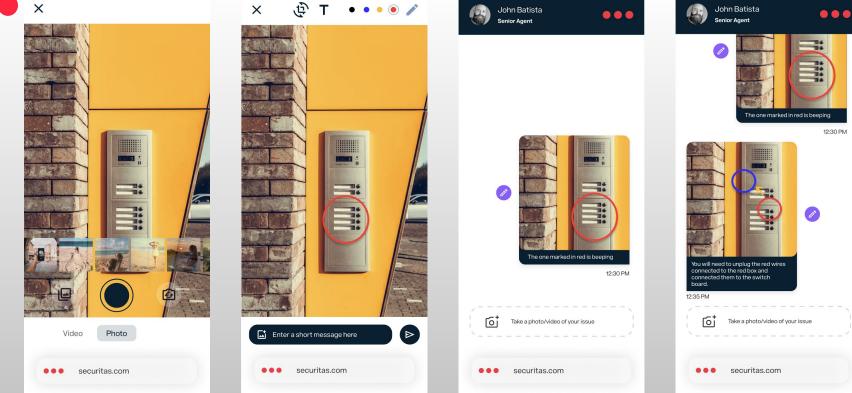




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		Authenticate Yourself Enter your OTP sent on SMS		
		02:32	You're chatting with John,	
		5 3 6 2 I didn't receive any code. RESEND	Tap to send a photo/video of your problem	
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For the User





John Batista

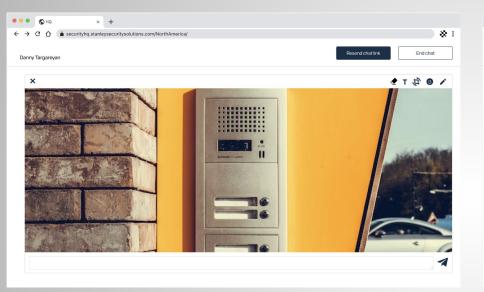
John Batista

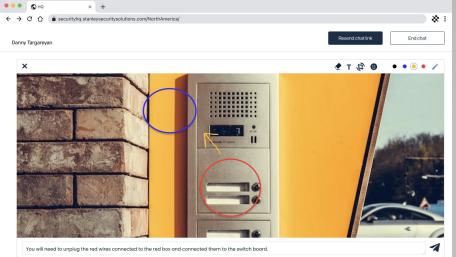
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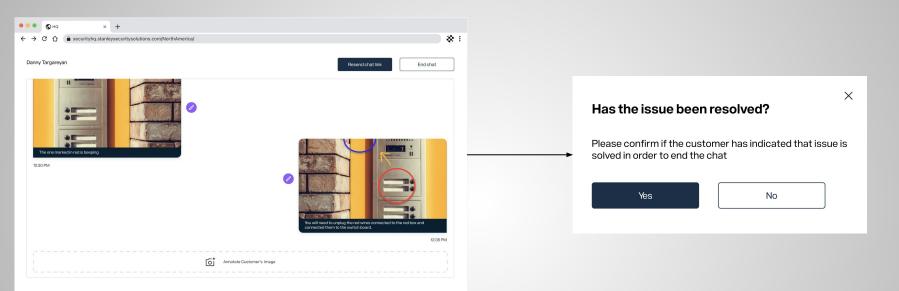
For the User

Problem Description Alarm sound keeps coming every 2 hours. Even after switching it off, it does not switch off. it s been troubling since all day until we had to switch off the store electricity entrely.	
Customer Name Location System	
C • Indianary documenty accurity acc	×
Bashbaard Locations Activity & Reports Activity & R	
HQ Portal/Service Ticket HQ Portal/Service Ticket Start Chat Back Please confirm if you want to send the temporal link to the customer.	ary chat
Ticket #CSK00001234@11 Scheduled Ves No	
Customer Name Location System Danny Targareyan Indianapolis, N Defender 10 Cam	
Problem Description The sound of an iarm can be an inflating and periadical distess and disconfert, particularly if it gos off repeatedly. In this case, the alarm sound compose, which can be extremily frustrating for anyone who is trying to concentrate, rest, or carry out their daily activities. Ben words: after wording the value off. If dais not with out the daily sound if the same memory challenging to dail with. The fact that the alarm sound contrates to balare in applied of all with the same and encounders are affected by the noise. Problem Type Repeated On Scheduled Date	
Flowmin Type Interpretation of the presentation of the presentatio	
Phone Number +10000000000	
Converses CharLark Back Sending Link to Customer	
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Danny Targareyan Resend chat link End o	ind chat Danny Targareyan Resend chat link End chat
() Waiting for customer to join the chat	To run tail tail tailet
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Usability Testing

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Interface Evaluation

Due to no direct access to Securitas' customers,

- We leveraged their in-house UX designers, and experience manager.
- Conduct expert evaluations and a think-aloud cognitive walkthrough
- We conducted **2 Expert Evaluations** and **1** Think- aloud Cognitive Walkthrough.

Interface **Evaluation**

Key Results

Vocabulary used is inconsistent with Agent's vocabulary.

Information hierarchy prioritizes redundant info in Ticket Information.



No button to end the conversation on the customer side.



Al recommendations for solving problems could increase Agent efficiency



Delivery receipts to show status could prevent confusion due to unsent messages.



Overall, interactions are easy to understand.

Future Steps

While this solution may act as a "*stepping stone*" towards the video customer service portal the following features can be tested to reduce time required per ticket, and increase productivity:



Al that uses Image and Speech recognition to recognize and get confirmation on the problem, and recommends possible solutions to the Agent.



Standalone Interface that does not require an active call to be in place. This allows multiple customers to speak with single Agent at the same time, increasing efficiency.



Incorporating ticket scheduling that allocates customers with time slots to speak with the Agent.

THANK YOU!

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